Lorenzo **Fabbri**

PHD STUDENT

Barcelona Institute for Global Health

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Research Interests

- Causal Inference, Mediation Analysis
- Environmental Epidemiology

Education

Universitat Pompeu Fabra   *Barcelona*

PHD PROGRAMME IN BIOMEDICINE   *2021 -*

- Projects: HELIX, ATHLETE, OBERON
  - Supervisors: Prof. Martine Vrijheid (ISGlobal), Prof. Lea Maitre (ISGlobal)

Università degli Studi di Trento   *Trento*

M.SC. IN QUANTITATIVE AND COMPUTATIONAL BIOLOGY   *2017 - 2019*

- Master thesis (FBK, Trento): Machine Learning for Predictive Drug-Induced Hepatotoxicity
  - Supervisors: Dr. Cesare Furlanello (FBK), Dr. Marco Chierici (FBK), Prof. Enrico Domenici (UNITN)
- Internship (HITS, Heidelberg): Machine and Deep Learning for Predictive Unbinding Kinetics of Kinases
  - Supervisors: Prof. Rebecca Wade (HITS), Dr. Daria Kokh (HITS), Prof. Raffaello Potestio (UNITN)
- Final mark: 110/110 With Honors

Università della Svizzera italiana   *Lugano*

M.SC. STUDENT IN COMPUTATIONAL SCIENCE   *2016 - 2017*

- Project: Investigation by Computational Techniques of Channelopaties related to Sodium Channels
  - Supervisors: Prof. Vittorio Limongelli (USI), Prof. Daniele Di Marino (USI)

University of Parma   *Parma*

B.SC. IN BIOTECHNOLOGY   *2012 - 2016*

- Bachelor thesis (RWTH, Aachen): Whole-body PBPK Modeling of Valproic Acid
  - Supervisors: Prof. Elena Maestri (UNIPR), Prof. Lars M. Blank (RWTH), Dr. Henrik Cordes (RWTH)
- Final mark: 103/110

Continuing Education

Apr 2022	**Spring School in Causal Inference with Observational Data** (Causal Insights, Leeds, UK)
Feb 2022	**Computational Bayesian methods using brms in R** (Physalia-courses, Online)
Sep 2021	**ELIXIR Omics Integration and Systems Biology** (National Bioinformatics Infrastructure Sweden, Online)
Sep 2021	**Fundamentals of Epidemiology (EPM101)** (LSHTM, Online)
Aug 2021	**Advanced Statistics: Statistical Modelling** (Swiss Institute of Bioinformatics, Online)
Jun 2021	**Alpine Exposome Summer School** (Inserm and ATHLETE, Online)
Feb 2021	**Metabolomics Data Processing and Data Analysis** (University of Birmingham, Online)
May 2020	**Mendelian Randomisation** (Imperial College London, Online)
Sep 2017	**Image Analysis and Modeling of Complex Biological Dynamics** (University of Wurzburg, Wurzburg, Germany)
Jul 2017	**Effective High Performance Computing Summer School** (CSCS and University of Lugano, Lugano, Switzerland)
Feb 2017	**MARVEL School on Variationally Enhanced Sampling** (University of Lugano, Lugano, Switzerland)
Nov 2015	**Advanced Course in Alternatives to Animal Experimentation** (University of Genova, Genoa, Italy)

Working Experience

Barcelona Institute for Global Health   *Barcelona*

PHD STUDENT   *2021 -*

Service

Organisations

- COnsortium of METabolomics Studies (COMETS) - Early Career Scientist Working Group

Societies

- International Society for Environmental Epidemiology (ISEE) - Students and New Researchers Network (SNRN), Capacity Building and Education Committee, Europe Chapter

Skills

Languages	Programming Languages	Markup Languages	Software Development
Italian (native), English (C1, IELTS 7.0), Spanish (basic)	R, Python, MATLAB, SAS, C	LaTeX, RMarkdown	GIT, SLURM, High-Performance Scientific Computing

Honors and Awards

2022   **Meritatamente 2022** (Società Unione Mutuo Soccorso)

2022   **Outstanding Abstract by a Student** (International Society for Environmental Epidemiology)

2019   **Erasmus+ Traineeship Programme Scholarship** (Università degli Studi di Trento)

2017   **Student Research Assistant Fellowship** (Università della Svizzera italiana)

2016   **Faculty of Informatics Scholarship** (Università della Svizzera italiana)

2015   **Erasmus Traineeship Programme Scholarship** (Università degli Studi di Parma)

Publications

L Fabbri, R Garlantezec, K Audouze, M Bustamante, Á Carracedo, …   *Environment International*

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC PROFILES: A PANEL STUDY   *2023*

L Fabbri, R Garlantezec, L Chatzi, R Grazuleviciene, WL Yuan, H Keun, …   *ISEE Conference Abstracts*

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC MARKERS IN A POPULATION-BASED CHILD COHORT   *2022*

C Thiel, H Cordes, L Fabbri, HE Aschmann, V Baier, I Smit, F Atkinson, …   *PLoS computational biology*

A COMPARATIVE ANALYSIS OF DRUG-INDUCED HEPATOTOXICITY IN CLINICALLY RELEVANT SITUATIONS   *2017*

Conference Presentations

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC PROFILES: A PANEL STUDY   *2022*

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC MARKERS IN A POPULATION-BASED CHILD COHORT   *2022*

CHILDHOOD EXPOSURE TO NON-PERSISTENT ENDOCRINE DISRUPTING CHEMICALS AND MULTI-OMIC MARKERS IN A POPULATION-BASED CHILD COHORT   *2022*

EFFICIENT AND PORTABLE MPI SUPPORT FOR APPROXIMATE BAYESIAN COMPUTATION   *2017*